

Title (en)

ADAPTIVE HYBRID WIRELESS AND WIRED PROCESS CONTROL SYSTEM AND METHOD

Title (de)

ADAPTIVES DRAHTLOSES UND VERKABELTES HYBRID-PROZESSSTEUERUNGSSYSTEM UND VERFAHREN DAFÜR

Title (fr)

SYSTÈME ADAPTATIF DE COMMANDE DE PROCESSUS HYBRIDES, RADIO ET FILAIRES, ET PROCÉDÉ

Publication

**EP 2497029 A4 20130424 (EN)**

Application

**EP 10829005 A 20101103**

Priority

- US 25811909 P 20091104
- US 2010055236 W 20101103

Abstract (en)

[origin: WO2011056833A1] A hybrid wired and wireless architecture for a process control system is disclosed that includes hierarchical adaptability and optimization capabilities. The system is arranged in three tiers, the first including a number of wireless end devices exchanging packets of data and/or instructions with the distributed control system, where each wireless end device is associated with one or more meters, remote terminal units, diagnostic devices, pumps, valves, sensors, or tank level measuring devices. The second tier includes a plurality of wireless routers, each including a memory that stores a routing table and a processor that routes packets. The third tier includes a master wireless gateway device operably connected to receive packets from and transmit packets to the distributed control system. The processor of each of the wireless routers routes packets across the tiers between the end devices and the wireless gateway devices based on the stored routing table.

IPC 8 full level

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CPC (source: EP US)

**H04W 40/14** (2013.01 - US); **H04W 40/22** (2013.01 - EP US); **H04L 45/04** (2013.01 - EP US); **H04L 45/124** (2013.01 - EP US); **H04L 45/24** (2013.01 - EP US); **H04L 45/42** (2013.01 - EP US)

Citation (search report)

- [XAYI] US 2009046732 A1 20090219 - PRATT JR WALLACE A [US], et al
- [Y] US 2008126665 A1 20080529 - BURR KENT ALLAN [US], et al
- See references of WO 2011056833A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2011056833 A1 20110512**; CN 102859508 A 20130102; CN 102859508 B 20151125; EP 2497029 A1 20120912; EP 2497029 A4 20130424; EP 2497029 B1 20160323; US 2013077477 A1 20130328; US 8942098 B2 20150127

DOCDB simple family (application)

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